

## ABSTRACT

A composite structure comprising two polytetrafluoroethylene porous layers and a framework structural member having a plurality of gaps or openings, the framework structural member being disposed between the two polytetrafluoroethylene porous layers, wherein the composite structure is structured such that the polytetrafluoroethylene porous layers are united together by being adhered with each other through the gaps or openings of the framework structural member and such that the respective polytetrafluoroethylene porous layers (A1) and (A2) are united with the framework structural member closely along the surfaces of the respective constituent elements of the framework structural member in such a manner as to wrap the respective elements. The method of manufacturing the composite structure is characterized in that it includes a step of applying pressure through a mass of fine particles.